1 Abstract

A robotic single axis system includes an effector moveable around a single rotating axis.
The system is substantially concentrically arranged and mounted adjacent a wafer chuck
of a precision stage. The robotic effector has a tangential distal end with a carrying face
for positioning the wafer between concentric pinlifters raising from the wafer chuck. The
pinlifters load and unload the wafer from the effector. The effector reaches with addition
of the stage's travel into a cassette and alternating into a prealigner positioned on top of
each other on an adjacent elevator. The elevator provides Z-axis movement so that the
effector may load and unload wafers from the cassette, and alternating inserts a carried
wafer into the prealigner.